

IN THE CLAIMS:

The text of all pending claims (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~strikethrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please AMEND claims 1, 5, 9, 13 and 14, and ADD new claim 16 in accordance with the following:

1. (Currently amended) A disk tray for a disk drive that slides in and out of the disk drive, the disk tray comprising two or more resonators mounted on a lower surface of the disk tray to selectively reduce noise of at least two predetermined frequency bands that correspond to dominant noise frequency bands above 200 Hz.

2. (Previously presented) The disk tray according to claim 1, wherein each of the two or more resonators comprises:

a through hole penetrating the disk tray and operating as an entrance and a bottle neck of each resonator; and

a resonance container surrounding the through hole and having a predetermined volume, the predetermined frequency band being determined according to an area of a profile of the through hole, a length of the bottle neck of the through hole, and a volume of the resonance container.

3. (Previously presented) The disk tray according to claim 2, wherein at least one of the resonators further comprises an absorbing member filling the resonance container.

4. (Previously presented) The disk tray according to claim 3, wherein a bottom surface of at least one of the resonance containers is open.

5. (Currently amended) A disk drive comprising:

a disk tray that slides in and out of the disk drive and on which a disk is placed;

a disk driving portion rotating the disk at a predetermined speed;

a disk chucking apparatus holding the disk on the disk driving portion;

a data recording/reproducing unit recording data on the disk or reproducing data from the

disk; and

two or more resonators installed on a lower surface of the disk tray to selectively reduce noise of at least two predetermined frequency bands that correspond to dominant noise frequency bands above 200 Hz.

6. (Previously presented) The disk tray according to claim 5, wherein each of the two or more resonators comprises:

a through hole penetrating the disk tray and operating as an entrance and a bottle neck of each resonator; and

a resonance container surrounding the through hole and having a predetermined volume, the predetermined frequency band being determined according to an area of a profile of the through hole, a length of the bottle neck of the through hole, and a volume of the resonance container.

7. (Previously presented) The disk tray according to claim 6, wherein at least one of the resonators further comprises an absorbing member filling the resonance container.

8. (Previously presented) The disk tray according to claim 7, wherein a bottom surface of at least one of the resonance containers is open.

9. (Currently amended) A resonator system having a plurality of resonators for a disk tray of a disk drive, each of the resonators comprising:

a through hole penetrating the disk tray and operating as an entrance and a bottle neck of the resonator; and

a resonance container surrounding the through hole and having a predetermined volume, the resonator being mounted on the disk tray to selectively reduce noise of a predetermined frequency band, the predetermined frequency band being determined according to an area of a profile of the through hole, a length of the bottle neck of the through hole, and the volume of the resonance container;

wherein each of the resonators converts sound energy to thermal energy to reduce a sound pressure level of a resonance frequency to selectively absorb a specific frequency; and

wherein at least two of the resonators respectively reduce noise of two different frequency bands that correspond to dominant noise frequency bands above 200 Hz.

10. (Previously presented) The resonator system according to claim 9, wherein at least one of the resonators further comprises an absorbing member filling the resonance

container to selectively reduce noise of a frequency band higher than the predetermined frequency band.

11. (Previously presented) The resonator system according to claim 10, wherein the absorbing member is a porous member.

12. (Previously presented) The resonator system according to claim 11, wherein the porous member is a sponge.

13. (Currently amended) A resonator for a disk tray of a disk drive, comprising:
a through hole penetrating the disk tray and operating as an entrance and a bottle neck of the resonator; and

a resonance container surrounding the through hole and having a predetermined volume, the resonator being mounted on the disk tray to selectively reduce noise of a predetermined frequency band, the predetermined frequency band being corresponding to a dominant noise frequency band above 200 Hz and determined according to an area of a profile of the through hole, a length of the bottle neck of the through hole, and the volume of the resonance container;

wherein the resonator converts sound energy to thermal energy to reduce a sound pressure level of a resonance frequency to selectively absorb a specific frequency; and

wherein the resonator further comprises an absorbing member filling the resonance container to selectively reduce noise of a frequency band larger than the predetermined frequency band.

14. (Currently amended) A resonator for a disk tray of a disk drive, comprising:
a through hole penetrating the disk tray and operating as an entrance and a bottle neck of the resonator; and
a resonance container surrounding the through hole and having a predetermined volume, the resonator being mounted on the disk tray to selectively reduce noise of a predetermined frequency band, the predetermined frequency band being determined according to an area of a profile of the through hole, a length of the bottle neck of the through hole, and the volume of the resonance container;

wherein the resonator converts sound energy to thermal energy to reduce a sound pressure level of a resonance frequency to selectively absorb a specific frequency; and

wherein the resonator further comprises an absorbing member filling the resonance container to selectively reduce noise of a frequency band larger than the predetermined

frequency band,

~~The resonator according to claim 13, wherein the absorbing member is a porous member.~~

15. (Previously Presented) The resonator according to claim 14, wherein the porous member is a sponge.

16. (New) A disk tray for a disk drive that slides in and out of the disk drive, the disk tray comprising two or more resonators mounted on a lower surface of the disk tray to selectively reduce at least two peak sound pressure levels that are above 200 Hz, wherein the peak sound pressure levels correspond to dominant noise frequency bands.